

CLAIMS

- [1] A moisture- or protein-adsorbability imparting agent, comprising a porous silica having a hexagonal pore structure, an average pore size of from 0.8 to 20 nm, an average particle size of 50 nm to 100  $\mu\text{m}$ , a specific surface area of from 400 to 2000  $\text{m}^2/\text{g}$ , and a pore volume of from 0.1 to 3.0  $\text{cm}^3/\text{g}$ .
- [2] The moisture- or protein-adsorbability imparting agent according to claim 1, wherein the porous silica shows an X-ray diffraction pattern having one or more peaks at a diffraction angle corresponding to a  $d$  value of greater than 2.0 nm, and wherein in the X-ray diffraction pattern there exist no peaks at a diffraction angle corresponding to a  $d$  value smaller than 1.0 nm that have a relative intensity of greater than 200% of the most intensive peak among said peaks.
- [3] The moisture- or protein-adsorbability imparting agent according to claim 1 or 2, wherein the porous silica has an amount of chlorophyll adsorption of 5 mg or more per 100 mg of the porous silica according to a test for chlorophyll adsorption.
- [4] The moisture- or protein-adsorbability imparting agent according to any one of claims 1 to 3, wherein the porous silica has an average particle size of primary particles of from 30 to 500 nm.
- [5] The moisture- or protein-adsorbability imparting agent according to any one of claims 1 to 4, further comprising a polyglycerol fatty acid ester obtained by esterification of a polyglycerol having an average degree of polymerization of 3 or more, and a fatty acid.
- [6] A material having adsorbability of moisture or a protein, comprising

the moisture- or protein-adsorbability imparting agent as defined in any one of claims 1 to 5.

[7]           The material according to claim 6, wherein the material is selected from the group consisting of food wrapping materials; filtration aid agents; sanitary articles; compositions containing a synthetic resin; moisture-  
5           controlled material; covering materials for wounds; insulation substrates; covering materials for semiconductor devices; cosmetics; inkjet recording media; and compositions containing synthetic fibers.

[8]           Use of the moisture- or protein-adsorbability imparting agent of any  
10           one of claims 1 to 5 for imparting adsorbability of moisture- or a protein to a material selected from the group consisting of food wrapping materials; filtration aid agents; sanitary articles; compositions containing a synthetic resin; moisture-controlled material; covering materials for wounds; insulation substrates; coating materials for semiconductor devices;  
15           cosmetics; inkjet recording media; and compositions containing synthetic fibers.